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Alexandria, Virgima 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

2614 DATE MAILED: 08/09/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,060	03/20/2006	Alon Slapak	SLM-P-00193-US	6660

TITLE OF INVENTION: ACTIVE NOISE CONTROL SYSTEM AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

maintenance fee notifications. CURRINT CORRESPONDENCE ADDRESS (Note: the Block 1 for any change of address) 86530 7590 08/09/2010 Shiloh et al. 99 John St., Suite 2303 New York, NY 10038 New York, NY 10038				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Fransmittal. This certificate cannot be used for any other accompanying papers, Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission. Liberby certify that this Fee(s) Transmittal is being deposited with the United States Foods Service with sufficient postage for first class multi an arrivelyer transmitted to the USFTO (\$71) 272-2885, on the date indicated below transmitted to the USFTO (\$71) 272-2885, on the date indicated below.					
								(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION	NO.
10/573,060 TITLE OF INVENTION	03/20/2006 : ACTIVE NOISE CON	TROL SYSTEM AND M	Alon Slapak METHOD			SL	M-P-00193-US	6660	
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"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 22 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.11. Comp	inge of Correspondence "Indication form and Use of a Customer		ip to nativ single or a attor Il be or typ he pa	3 registered paten rely, e firm (having as a sgent) and the nam meys or agents. If printed. ee) step in the first patents are a second patents are a sign assignment.	memb es of u no nan	er a 2p to p to ee is 3	cument has been	
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	ites Patent and Trademark	d from anyone other tr k Office.	ian ti	ne applicant; a regi	sterea :	attorney or agent; or th	e assignee or otner	party in
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86530	7590	08/09/2010		EXAM	UNER
Shiloh et al.				PAUL,	DISLER
99 John St., Su				ART UNIT	PAPER NUMBER
New York, NY	10038			2614	
				DATE MAILED: 08/09/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 95 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 95 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)		
10/573,060	SLAPAK ET AL.		
Examiner	Art Unit		
DISLED PALII	2614		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application front included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 7/5/10.

2. ☑ The allowed claim(s) is/are 1-31.

- . M The allowed claim(s) is/are 1-31.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - i) All b) Some* c) None of the:
 - 1. \square Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) \square including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - The reto or 2) to Paper No./Mail Date ____.

 (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment reparding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08),
 Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summery (PTO-413).
 Paper No./Mail Date
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ____

Application/Control Number: 10/573,060

Art Unit: 2614

DETAILED ACTION

Allowable Subject Matter

Claims 1-31 are allowed.

In regard to independent claim 1, while the prior art of record disclose of an active noise control system for controlling noise produced by a noise source, said system comprising: an acoustic sensor to sense a noise pattern and to produce a noise signal corresponding to the sensed noise pattern; an acoustic transducer to produce a noise destructive pattern based on said predicted noise signal, wherein the noise destructive pattern has a non-linear relationship to the noise pattern sensed by the acoustic sensor.

However, none of the prior art of record disclose of the specific wherein an estimator to produce a predicted noise signal by applying a non-liner estimation function to said noise signal wherein the predicted noise signal includes an estimation of a predicted sample of the noise signal wherein the estimator is to estimate the predicted sample by applying the estimation function to the current sample and to one or more samples preceding the current sample of the noise signal.

In regard to independent claim 18, while the prior art of record disclose of an active noise control system for controlling a noise produced by a noise source, said system comprising: a primary acoustic sensor to sense a noise pattern and to produce a

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corresponding primary noise signal; at least one secondary acoustic sensor to sense a residual noise pattern and to produce at least one secondary noise signal corresponding to the residual noise pattern sensed by said at least one secondary acoustic sensor is separated from said noise source by a distance larger than a distance between said primary acoustic sensor and said noise source; and a controller functionally associated with an acoustic transducer and at least one estimator to produce a predicted noise signal, wherein the predicted noise signal includes an estimation of a predicted sample of at least one sampled signal of the primary noise signal and the secondary noise signal and wherein said controller is adapted to produce a noise destructive pattern based on said primary noise signal and said at least one secondary noise signal and said predicted noise signal, and wherein the noise destructive pattern produced by the controller has a non-linear relationship to the noise pattern sensed by the primary acoustic sensor.

However, none of the prior art of record disclose of the specific wherein the predicted noise signal includes an estimation of a predicted sample of at least one sampled signal of the primary noise signal and the secondary noise signal and which is successive to a current sample of the sampled signal, and wherein the estimator is to estimate the predicted sample by applying at least one non-linear estimation function to the current sample and to one or more samples preceding the current sample of the sampled signal.

Application/Control Number: 10/573,060

Art Unit: 2614

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DISLER PAUL whose telephone number is (571)270-

1187. The examiner can normally be reached on 10-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chin Vivian can be reached on (571) 272-78-48. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have guestions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D P /

Examiner, Art Unit 2614

/Devona E. Faulk/

Primary Examiner, Art Unit 2614